

2013 Utah Fish Consumption Advisories for Mercury

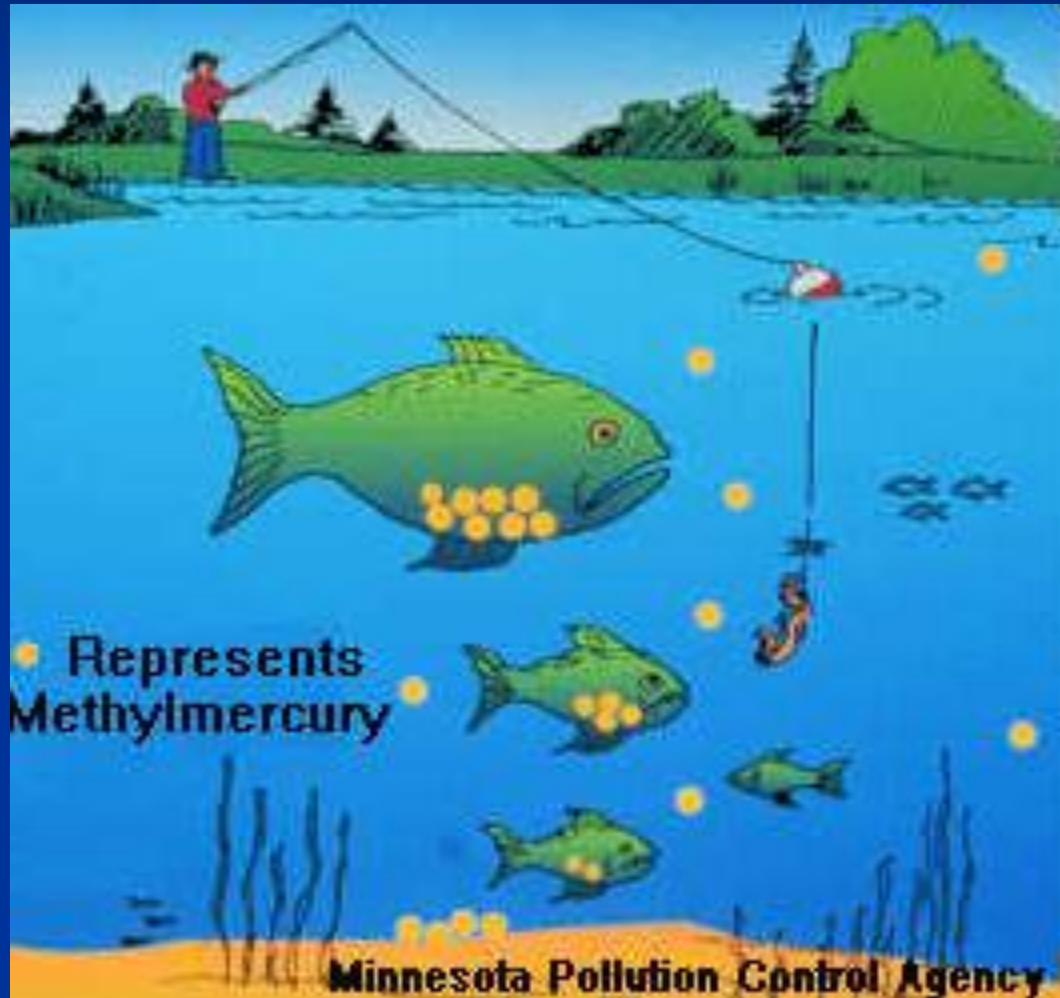


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Utah DEQ, Division of Water Quality
Statewide Mercury Workgroup
August 29, 2013

Toxic Effects of Methylmercury to Humans

- Neurotoxin
- Impacts the immune system
- Alters genetic and enzyme systems
- Particularly damaging to developing embryos

Bioaccumulation of Methyl Mercury (MeHg)



Do Benefits of Eating Fish Outweigh the Risks?

Benefits of Fish Consumption

- Good source of protein, low in saturated fat
- Contains Omega 3 Fatty Acids – great for the heart
- AHA recommends eating 2 servings (3.5 oz) per week
- DHA is beneficial for fetal and early childhood neurodevelopment

Mercury Advisory Process

- Collect fish (DWR - Division of Wildlife Resources & DWQ - Division of Water Quality)
- Laboratory preparation and analysis (EPA)
- Assure adequacy of data set (DWQ)
- Human health assessment (DOH - Department of Health)
- Coordination with DOH, DWR and DWQ
- Joint Advisory Issued



New 2013 Advisories

Starvation Reservoir, Duchesne County

Species	Average Fish Mercury Concentration (ug/g)	Pregnant Women and Children <6, 4 oz meals/month	Women of Child Bearing Age and Children 6-16, 8 oz meals/month	Adult Women Past Child Bearing Age and Men >16, 8 oz meals/month
Walleye >12 inches	0.751	Do Not Consume	1	3

New 2013 Advisories

Recapture Reservoir, San Juan County

Species	Average Fish Mercury Concentration (ug/g)	Pregnant Women and Children <6, 4 oz meals/month	Women of Child Bearing Age and Children 6-16, 8 oz meals/month	Adult Women Past Child Bearing Age and Men >16, 8 oz meals/month
Largemouth Bass	0.592	Do Not Consume	1	4

*Already have advisory at this location for Black Bullhead

New 2013 Advisories

Yuba Reservoir, Sanpete/Juab Counties

Species	Average Fish Mercury Concentration (ug/g)	Pregnant Women and Children <6, 4 oz meals/month	Women of Child Bearing Age and Children 6-16, 8 oz meals/month	Adult Women Past Child Bearing Age and Men >16, 8 oz meals/month
Northern Pike	0.374	1	2	7
Walleye	0.627	Do Not Consume	1	4

Modification of Existing Advisory

Quail Creek Reservoir, Washington County

Species	Average Fish Mercury Concentration (ug/g)	Pregnant Women and Children <6, 4 oz meals/month	Women of Child Bearing Age and Children 6-16, 8 oz meals/month	Adult Women Past Child Bearing Age and Men >16, 8 oz meals/month
Largemouth Bass, 2011	0.389	1	2	7
Largemouth Bass, NEW for 2013	0.638	Do Not Consume	1	4

Utah: Mercury Sampling Sites and Consumption Advisories



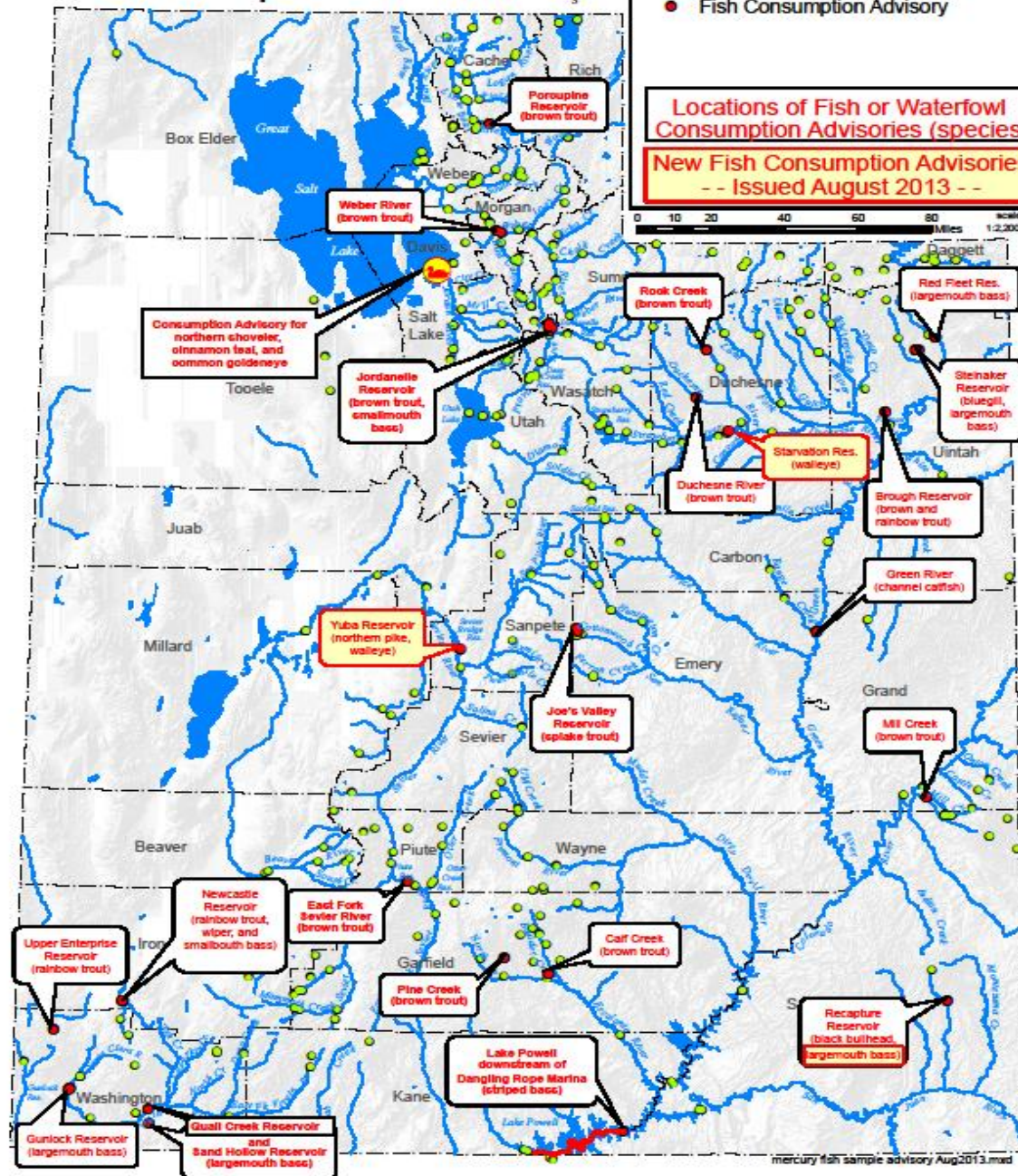
Mercury Sampling Results

- No Fish Consumption Advisory
- Fish Consumption Advisory

Locations of Fish or Waterfowl Consumption Advisories (species)

New Fish Consumption Advisories
-- Issued August 2013 --

0 10 20 40 60 80 Miles 1:2,200,000





www.fishadvisories.utah.gov/